

The Theory of Aerosol Formation on ~~22x~~ Condensation
Nuclei, by B. V. Deryagin.

RUSSIAN, bk, Aerosoli v Del'nom Khozyaistve, 1956,
pp 8-14. 9072206

USDA

Sci - Med

Oct 60

129,810

Investigation of Adhesion Effects in Bonding
Rubber to Metal by Leukonat Adhesive, by A. M.
Medvedeva, B. V. Deryagin, S. K. Zharebkov,
8 pp.

RUSSIAN, per, Kolloid Zhur, Vol XIX, No 4, 1957,
pp 412-420.

Consultants Bureau

Sci - Chem

Jan 59

79,455

New Methods for the Measurement of the Specific Surface
(in cm^2/g) and of the Specific Adsorption (in g/cm^2).
Part I, by B. V. Deryagin, V. I. Krylova, R. M. Fridlyand

RUSSIAN, no per, Zhur Fiz Khimii, Vol XXIV, No 11,
1950, pp 1371-1382.

18-66-11112

Butler
Butler
(no. 11112)

9076176
ATS-RJ 654

DSIR LRU m.1659 (donor)
~~Set to Procenter~~

National Research Library
TT.272

Scientific - Chemistry

10, 674

The Kinetics of the Attachment of Mineral
Particles to Bubbles During Flotation. IV.
Retardation of Bubble-Surface Movements by
Surface-Active Agents, by S. S. Babin,
XX B. V. Deryagin, 5 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXIV, No 6,
1961, pp 1246-1257.

Cleaver-Hume Press

Sci

201,570

Jan 62

Diffusiophoresis in Electrolyte Solutions and Its
Role in the Mechanism of Film Formation from Rubber
Latexes by the Method of Ionic Deposition, by B. V.
Deryagin, S. S. Dukhin, A. A. Korotkova. 6 pp.

RUSSIAN, par Kolloid Zhur,
Vol. XVIII, No.1, 1961, pp. 53-58

CB

192,211

Sol

Mar 62

Effect of Surface Forces on Phase Equilibria of
Polymolecular Layers and on Contact Angle, by B. V.
Deryagin, L. M. Shcherbakov. 11 pp.

RUSSIAN, per Kolloid Zhur,
Vol. XXIII, No.1, 1961, pp. 40-52

CB

192,218

Sci

Mar 62

Determination of the Specific Area of
Powders in the Production of Hard Alloys,
by B. V. Deryagin, V. H. Yermín, 9 pp.

RUSSIAN, per, Tsvetnyye Metally, No 11, 1959,
pp 55-60.

JPRS 16167

Sci - M/M

Nov 62

217,473

Definition of the Concept of, and Magnitude of the
Disjoining Pressure and Its Role in the Statics and
Kinetics of Thin Layers of Liquids, by B. V. Deryagin,
8 pp.

RUSSIAN, bimo per, Kolloid Zhur, Vol XVII, No 3,
May-Jun 1955, pp 207-214. CIA C 39499

Consultants Bureau

Scientific - Chemistry
Nov 55 CTS/DEX

28,861

The Theory of the ^Motion of Small Aerosol Particles in
a Diffusion Field, by B. V. Deriagin, S. P. Bakanov,
5 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXVII, No 6, 1957,
pp 959-962.

CSIR-tr. 148

Amer Inst of Phys
Sov Phys "Doklady"
Vol II, No 6

Sci - Physics
Jul 58

67,200

Determination of the Specific Surface of Powders
Used in the Production of Hard Alloys, by
B.V. Deryagin, et al.

RUSSIAN, per, Tsvetnye Metally, No 11, 1959, pp 55-60.
CIA 9660545

ATTC MCL 618

Sci - Min/ Met

May 61

152, 563

Wire DC-4

Stability Mechanism of Free Films of Solutions of
Surface-Active Substances, by B. V. Deryagin, A. S.
Iltiyevskaya, V. Kh. Vybornova, 6 pp.

RUSSIAN, per, Kolloid Zhur, Vol XXII, No 4, 1960,
pp 398-402.

CB

Sci

Jun 61

153,266

Theory of Slipping and Periodic Sticking of Solid Bodies (Friction Self-Oscillation of the First Kind)., General Condition for Occurrence of Sticking, by B. V. Derjagin, V. E. Push, D. M. Tolstoi, 22 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXVI No 6,
Jun 1956, pp XI 1329-1343.

Amer Inst of Phys
Soviet Phys, Tech Phys
Vol I, No 6

49, 742

Sci - Phys
Jul 57

Effect of Diffusion on the Streaming Potential, by
E. V. Deryagin, 6 pp.

RUSSIAN, per, Kolloid Zhur, Vol XXII, No 2, 1960,
pp 148-153.

CB

Sci

May 61

153,308

Investigation of Adhesion Effects in Bonding of Rubber to Metal by "Leukonat" Adhesive. 3. Reaction of Sodium Butadiene Rubber With Triphenylmethane Triisocyanate, by A. M. Medvedeva, B. V. Deryagin, S. K. Zharebkov, 6 pp.

RUSSIAN, per, Kolloid Zhur, Vol XXII, No 2, 1960, pp 217-222.

CB

Sci

153, 315

May 61

Investigation of Potential Barriers in the
Approach of Crossed Platinum Wires in Electrolyte
Solutions, by T. N. Voropayeva, B. V. Deryagin,
7 pp.

RUSSIAN, per, Kolloidnyi Zhur, Vol XXIV, No 4,
1962, pp 396-404.

CB

Sci
Jun 63

233,729

The Repulsive Action of Free Liquid Films and Its
Role in the Stability of Foams, by B. V. Deryagin,
A. S. Titievskaya, 10 pp. ~~UNCLASSIFIED~~

RUSSIAN, bino per, Kolloid Zhur, Vol XV, No 6,
1953, pp 416-425.

Consultants Bureau

Scientific - Chemistry

17,842

A Diffusion Hygrometer, by I. B. V. Derjagin,
P. S. Prokhorov, G. A. Batova, L. F. Leonov, 9 pp.
RUSSIAN, per, Zhur Tekh Fiz, Vol XXVI, No 4, Apr
1956, pp 887-894.

Amer Inst of Phys
Soviet Phys-Tech Phys
Vol I, No 4

8
Role of Electrical Phenomena in the Adhesion of Films,
by B. V. Deryagin, N. A. Krotova, V. V. Karasev, 5 pp.
RUSSIAN^{NO}, per, Zhur Tekh Fiz, Vol XXIV, No 7, 1954,
pp 1354-1357.

Sci Tr Center RT-4202

Sci - Physics

41,554

SLR 64-10000

Nonstationary Evaporation of a Droplet Covered
by an Adsorbed Layer, by B. V. Deryagin,
Yu. S. Kurgin, 3 pp.
RUSSIAN, per, Dok Ak Nauk SSSR, Physical
Chemistry, Vol CLV, No 3, Mar, Apr 1964,
pp 644-646.

CB

May 65

Theory of the Thermophoresis of Moderately
Large Aerosol Particles, by B. V. Deryagin,
Yu. I. Yalamov, 5 pp.
RUSSIAN, per, Dok Ak Nauk SSSR, Physical
Chemistry, Vol CLW, No 4, Mar, Apr 1964,
pp 886-889.

CB

Sci
May 65

Electrical Phenomena in the Disruption
Mechanism of Some Solids, by B. V. Deryagin,
N. A. Krotova, V. V. Karasev, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Phys Sec,
Vol CIX, No 4, Jul-Aug 1956, pp 728-

Amer Inst of Phys
Sov Phys of "Doklady"
Vol I, No 4

51,680

Sci - Phys
Aug 57

Direct Measurements of Molecular Attraction Between
Solids in a Vacuum, by B. V. Derjagin, I. I.
Abrikosova, 5 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Phys Sec,
Vol CVIII, No 2, 1956, pp 214-

2

Amer Inst of Phys
Sov Phys "Doklady"
Vol I, No 3

Sci - Physics
Aug 57

51, 592

Kinetic Wetting in Coating and the Method of Its
Measurement, by B. V. Deryagin, S. M. Levi, 7 pp.

RUSSIAN, per, Zhur Nauch i Prik Fotograf i
Kinematograf, Vol I, No 5, 1956, pp 354-358.

Sci Mus Lib Tr 57/1219

Sci - Physics
Aug 57

51,405

The Electronic Theory of the Adhesion Between
Metals Joined by a Semiconducting Interlayer,
by B. V. Deryagin, V. P. Smilga. UNCL

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXI, No 5, 1958,
pp 877-880.

Co-op Tr Scheme 640

32s. Od. in U.K.

Sci - Electron 48s. Od. (others)

Aug 59

94, 837

SLA: 61-15376

The Role of Diffusion of Polymer Chains in the Mechanism
of Adhesion and Autohesion of Rubbers, by B. V. Deryagin,
S. K. Zharebkov, A. M. Medvedeva, 8 pp.

RUSSIAN, bimo per, Kolloid Zhur, Vol XVIII, No 4,
Jul/Aug 1956, pp 404-412.

Consultants Bureau

Sci - Physics
Jun 1957

48,378

Theory of the Flow of a Gas in a Porous Material
in the Near-Knudsen Region, by B. V. Deryagin and
S. P. Bakanov, 15 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXVII, No 9, 1957
pp 2056-2070.

Amer Inst of Phys
Sov Phys-Tech Phys
Vol II, No 9

Sci-Phys
Jun 58

65, 230

The Relationship Between the Floatability of
Antimonite and the Magnitude of the Zeta
Potential, by B. V. Deryagin, N. D. Shukakidze,
6 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXXIV,
No 2, 1960, pp 376-379.

CB

Sci

152, 991

May 61

Use of a Limiting Blade in Applying Emulsion Layers, b
B. V. Deryagin, S. M. Levi, 5 pp.

RUSSIAN, per, Trudy NIKFI, No 35, 1960, pp 64-69.

CIA/FDD XX-1157
NOT RELEASABLE TO FOREIGN NATIONALS

Sci

198, 450

May 62

USIE INTERNAL USE ONLY

Theory of a Cylinder Rolling on a Surface Covered
with a Layer of Plastic Lubricant, L. I. Kotova and
B. V. Deryagin, 5 pp. ^{by}

RUSSIAN, per, Zhur Tekh Fiz, Vol XXVII, No 6, 1957 ,
pp 1261-1271.

Amer Inst of Phys
Sov Phys-Tech Phys
Vol II, No 6

Sci - Phys

May 58

62,736

New Concepts in the Field of Aerosol Research, by B. V.
Deryagin, 133 pp.

et al

RUSSIAN, per, Novye Idei v Oblasti Issledeniia
Aerosolei, Moscow, 1949. CIA D 9005570,

Sci Tr Center
RT-1333

Scientific - Physics

17,421

Investigation of the Influence of Organopoly-
siloxane Coatings on the Adhesion of Ice to
Various Surfaces, by K. A. Andrianov, B. V.
Deryagin, N. N. Zakhavayeva, M. V. Sobolevskiy,
and M. V. Talayev, 9 pp.

Russian, per, Zhur Prik Khim, Vol XXXII, No 12,
1959, pp 2682-2690

CB

Sci

133,177

Nov 60

Investigation of Gaseous Discharge During Stripping
of High Polymer Film From Solid Backing, by V. V.
Karasev, N. A. Krotova, B. V. Deryagin, 11 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol LXXXIX, No 1,
1953, pp 109-112.

SLA 60-10058

Sci

OTS, Vol III, No 7

133,055

Nov 60

Study of the Boundary Viscosity of Organic Liquids
by the Blowing Method, by V. V. Karasev, B. V.
Deryagin, 6 pp.

RUSSIAN, bimo per, Kolloid Zhur, Vol XV, No 5,
1953, pp 365-370.

Consultants Bureau

Scientific - Chemistry

CTS/DEX

17,565

Equilibrium, stability and kinetics of free
films of a liquid, by Deryagin, B. V.,
Kerpin, S. V., 7 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, 99, no 6,
1954, p 1029-32.

SLA R-3474

OTS 61-23335

Sci

Aug 59

94,369

Temperature Dependence of the Viscosity of
Gelatin Solutions, by B. V. Deryagin, S. M.
Levi, 5 pp.

RUSSIAN, bimo per, Kolloid Zhur, Vol XV, No 1,
1953, pp 24-28.

Consultants Bureau

Scientific - Chemistry CIB/DEX

17,611

1763-W

Determination of the Specific Surface of Powder-
Form Bodies on the Basis of Resistance to Filtration
of Rarefied Air, by B. V. Deryagin, E. N. Zakhavayeva,
M. V. Talayov, V. V. Filippovskiy, 53 pp.

RUSSIAN, bk, Opredeleeniye Udel'noy Poverkhnosti
Poroshkoochrasnykh Tel Po Soprotivleniyu Filtratsii
Razreshennogo Vozdukh, Moscow, 1957, pp 1-59.

US JPRS Tr L-550-W

Sci - Chemistry
Jan 59

79,692

Automatically Recording Diffusion Hygrometer, by
A. P. Nikol'skiy, B. V. Deryagin, P. S. Prokhorov,
G. A. Batova, 8 pp.

RUSSIAN, per, Zavod Lab, Vol XXIII, No 4, 1957,
pp 497-500.

CIA/FDD X-2791

Sci - Phys;
Mar 58

60,689

The Kinetics of the Attachment of Mineral Particles
to Bubbles During Flotation. I. The Electric Field
of a Moving Bubble, by B. V. Deryagin, S. S. Dukhin,
V. A. Lisichenko, 8 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXIII, No 10,
1959, pp 2280-2287.

Cleaver-Hume Press

Sci
no. 10

122,290

Electrical Field of a Moving Droplet, by
S. S. Dukhin, B. V. Deryagin, 20 pp.

RUSSIAN, per, Kolloid Zhur, No 1, Vol XXI,
1959, pp 37-49. 9671208

FTD MCL-1192/1

Sci - Electron

24 Oct 61

171,831

The Role of Surface Properties of a Semiconductor in Adhesion Phenomena, by V. P. Shilga and B. V. Daryagin, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXII, No 6, 1958, pp 1049-1052.

Consultants Bureau

Sci

Dec 59

102,028

The Theory of Force Interaction of Resting
Droplets at Any Distance at Psychrometric
Temperature, by S. S. Dukhin and B. V. Der-
yagin, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXV, No
1, pp 126-.

1957

2
Consultants Bureau

Sci - chem

73, 675

Aug 58

The Study of Causes for Non-Coalescence of Liquid
Drops Under Static Conditions (Under Lengthly
Contact), by B. V. Deryagin, P. S. Prokhorov.

RUSSIAN, per, Novye Idei v Oblasti Izucheniya
Aerozolei, Ak Nauk SSSR, Inst Fiz Khim, Sbornik
Statei, 1949, pp 84-101.

AEC UCRL-Trans-601

OTS 61-15424

141,077

Sci - Phys, Chem
24 Feb 61

Optical Investigation of Adsorption and Surface
Condensation of Vapors Near Saturation, by B. V.
Deryagin, Z. M. Zorin, 4 pp.

Full tr

RUSSIAN, ~~xxx~~ thrice-mo per, Dok Ak Nauk SSSR, Vol
XCVIII, No 1, 1954, pp 93-96.

Navy Tr No 1359/NRL 569

INSDOC-T2226

40,282

Sci - Physics
Oct 1956 CTS/dex

Measurement of the Specific Surface of Carbon Blacks
by Means of Deryagin's Apparatus, by B. V. Deryagin,
N. N. Zakhavzyeva, M. V. Talayev, 8 pp

RUSSIAN, no per, Zhur Prik Khim, Vol XXIX, No 1,
1956, pp 46-52. CIA C 43286

~~SCI~~

Consultants Bureau

Sci - Chemistry

37,036

Aug 1956

The Role of Mechanical and Molecular Roughness
in External Friction, by B. V. Deryagin, et al.

RUSSIAN, thrice-mo per, Dok Ak NaukSSSR, Vol
CIII, No 6, 1955, pp 1021-1024.

Coop Trans Scheme Tr 219

Li.4s.

36,342

Sci - Physics, Engineering

Jul 1956

cc: [unclear] [unclear]

Method of Investigating the Kinetics of Structure
Formation in Dilute Thixotropic Solution, by
B. V. Deryagin, V. N. Yashin, 5 pp.

RUSSIAN, per, Kolloidnyi Zhur, Vol XXIV, No 4,
1962, pp 438-443.

Q3

Sci

Apr 63

233,733

The Surface Conductivity of Quartz in the Presence
of Adsorbed Film, by I. P. Abdurakhmanova, B. V.
Deryagin, 6 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXX, No 1, 1958,
pp 94-97.

Consultants Bureau

Sci. - Chem

22/6/59

89,979

The Role of Diffusion in Electrokinetic Phenomena.
The Diffusion Theory of the Dorn Effect (The
Potential of Moving Particles), by B. V. Deryagin,
S. S. Dukhin, 6 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXIX, No 6,
1959, pp 1328-1331.

CB

Sci

Oct 60

130, 034

The Adhesion Between Polymers and Acidified Gas
Surfaces in Relation to the Charge-Reversal
Phenomena Observed on Separation, by N. A.
Krotova, L. P. Morozova, B. V. Deryagin, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXIX, No
1959, pp 149-152.

CB

Sci

Oct 60

130,081

The Physical Chemistry of Coating Thin Layers
on a Moving Support, by B. V. Deryagin, S. M.
Levi.

RUSSIAN, monograph, 1959, 209 pp.

SLA 61-20021

Sci
Mar 62

Vol VII, No 2

189,526

A Filtration Method for Determining the Specific
Surface Area of Porous Bodies, by B. V.
Deryagin, N. N. Zakhayeva, et al, 12 pp.

RUSSIAN, 2 mono, Trudy Vtorogo Soveshchaniya,
1956, pp 88 203-213.

ATS-10043R

Sci

202, 247

Jun 62

An Investigation of Capillary Osmosis in Gases,
by B. V. Derygin, G. A. Batsva, 6 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Physical Chemistry
Section.

CSIR Tr 141

Sci - Chem

Nov 60

133,316

Research in Surface Forces, by B. V. Deryagin.

RUSSIAN, bk, Acad Sci, 1961.

~~REDACTED~~ CB

Sci

May 63

NLL (1961)

Study of the Boundary Viscosity of Organic
Substances According to the Kinetics of Thinning
of Their Wetting Layers in the Blowing-Off Process,
by B. V. Deryagin, V. V. Karasev, 6 pp.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol CI,
No 2, 1955, pp 289-292.

Morris D. Friedman - D-III

\$3.00

35002

Scientific - Physics

Jun 56 CTS/dex

Investigation of Adhesion of Powder to
Plane Surfaces, by B. V. Deryagin, A. D.
Zimon.

RUSSIAN, per, Kolloidnyi Zhurnal, Vol 23,
No 5, 1961, pp 544-552.
SLA TT-66-10701

B. V. Deryagin

Sci-Chem
Jul 66

305,568

New Methods for the Measurement of the Specific
Surface (in CM^2) Pt. 1, by B.V. Deryagin,
V. I. Krylova, et al. 30 pp.
RUSSIAN, per, Zhurnal Fizicheskoi Khimii, Vol 24,
1950, pp 1371-1382.
SLA TT-64-18062

B. V. Deryagin

Sci/Chemistry
Jul 66

306,203

Investigation of the Stability of Thin
Lubricating Films on Solid Surfaces, by B. V.
Deryagin and N. N. Zakhavaeva, 6 pp.

RUSSIAN, Kolloid Zhur. Vol 11, No 4, 1949,
pp 230-231.

Sci Museum No 51/2736

Navy 145/NRL-289

Scientific - Chemistry

Sci. Techn. Ser.

PS-17

RT-677

A-1612

On the Problem of the State of a Gas Moving
Near the Solid Surface, by S. P. Bakanov,
B. V. Deryagin, 4 pp.

RUSSIAN, per, Dok Ak Nauk, SSSR, Vol CXXXIX,
No 1, 1961, pp 71-74.

AIP

Sov Phys - Dok

Vol VI, No 7

859
182, ~~455~~

Sci

Feb 62

(NY-1651)

Motion of Aerosol Particles in a Diffusion Field,
by B. V. Deryagin, S. S. Dukhin, 11 pp.
UNCLASSIFIED

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol
CVI, No 5, Moscow, 11 Feb 1956, pp 851-854.
CSIR- # 147

US JPRS/NY-L-222

Sci - Chemistry

66,094

Effect of Surface-Active Substances (Color-Formers)
on the Specific Viscosity of Gelatin Solutions and
Photographic Emulsions, by B. V. Deryagin, S. M. Levi
V. S. Kol'tsov, 9 pp.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol LXXIX,
No 2, 1991, pp 283-286.

CIA/FDD/X-1092

Scientific - N Chemistry CTS/DEX

5587

Investigations of the Surface Condensation and
Adsorption of Vapors Near Saturation by the
Optical Micropolarization Method. Part II, by
B. V. Daryagin, Z. M. Zorin.

Full tr

RUSSIAN, no per, Zhur Fiz Khim, Vol XXIX, No 10,
1955, pp 1755-1770.

Navy Tr No 1360/NRL 570

Sci - Physics
Oct 1956 GTS/dex

40,283

Diffusion Chamber with Supersaturation Constant
Throughout the Volume and in Time, by B. V. Deryagin,
P. S. Prokhorov, M. V. Velichko, 3 pp.

RUSSIAN, per, Pribery i Tekh Ekspert, No 2, 1960,
pp 45-47.

ISA

Sci

144, 161

Feb 61

A Filtration Method for Determining the Specific
Surface Area of Porous Bodies, by B. V.
Deryagin, N. N. Zakhayeva, et al, 12 pp.

RUSSIAN, 2 mono, Trudy Vtorogo Soveshchaniya,
1956, pp 203-213.

ATS-1043R

Sci

202, 247

Jun 62

Adhesion of Powder Particles to Plane Surfaces,
by B. V. ~~Deryagin~~, A. D. Zimon, 7 pp.

RUSSIAN, per, Kolloid Zhur, Vol XXIII, No 5,
1961, pp 544-552.

CB

Sci
~~Book~~
Aug 62

208,015

Disjoining Pressure of Electrolyte Solutions on
Polarized Mercury, by B. V. Deryagin,
A. V. Gorodetskaya, et al, 7 pp.

RUSSIAN, per, Kolloid Zhur, Vol XXIII, No 5,
1961, pp 535-543.

CB

Sci

~~XXXXX~~

AUG ~~XX~~ 62

208,014

THE THEORY OF THE SLIP OF A GAS ALONG A SOLID SURF
SURFACE UNDER THE INFLUENCE OF A TEMPERATURE
DROP, BY B. V. DERYAGIN, S. P. BAKANOV, 3 PP.

RUSSIAN, PER, DOK AK NAUK SSSR, VOL CXLI, NO 2,
1961, PP 384-386.

CB

SCI - PHYS CHEM

SEP 62

209,627

(DC-6992)

CINEMATOGRAPHIC STUDY OF THE FLOW OF THIN
LIQUID LAYERS ON THE SURFACE OF A SOLID, BY
D. V. BERTAGIN, N. N. ZAKHAROV, ET AL,
11 PP.

RUSSIAN, PER, KOLLOIDNYI JURNAL, VOL XXIV, NO 3,
MAY-JUN 1962, PP 253-258.

JPRS 19670

SCI - PHYS

SEP 62

210,217

Molecular Attraction in the Condensed State,
by B. V. Deryagin, I. I. Abrikosova, 37 pp.

RUSSIAN, per, Uspekhi Fizicheskikh Nauk,
Vol LXIV, No 3, 1958, pp 493-528.

AEC-tr-~~4~~5331

PTL-480

Sci

Jun 64

261,430

A New Method of Obtaining Constant and Homogeneous
Supersaturation, by B. V. Deryagin, P. S.
Prokhorov, 7 pp.

RUSSIAN, bk, Issledovaniya v Oblasti
Poverkhnostnykh Sil, Sbornik Dokladov na
Konferentsii po Poverkhnostnym Silam, April
1960, Izdatel'stvo Ak Nauk SSSR, Moscow, 1961,
9667413

FTD-TT-62-429

Sci - Phys
Jan 63

219515

On the Behavior of a Small Aerosol Particles in a
Nonuniformly Heated Mixture of Gases, by S. P.
Bakanov, B. V. Deryagin, 9 pp.

RUSSIAN, bk, Issledovaniya v Oblasti
Poverkhnostnykh Sil, Sbornik Dokladov na
Konferentsii po Poverkhnostnym Silam, April
1960, Izdatel'stvo Ak Nauk SSSR, Moscow, 1961,
9667413.

FTD-TT-62-429

Sci - Phys
Jan 63

21854

Deryagin, B. V. and Levi, S. M.
USE OF A LIMITING BLADE IN APPLYING
EMULSION LAYERS. 1961, 4p.
Order from CTT \$8.00

CTT-61K113

Trans. of [Vsesoyuznyi] N[auchno]-I[sledovatel'skii]
K[ino]fot[o]i[nstitut]. Trudy (USSR) 1960, no. 35,
p. 64-69.

DESCRIPTORS: Photography, *Photographic emulsions,
Photographic films, Processing.

(Materials--Photographic, TT, v. 8, no. 1)

62-12974

- I. Deryagin, B. V.
- II. Levi, S. M.
- III. CTT-61K113
- IV. Columbia Technical
Translations, White Plains,
N. Y.

205370

Office of Technical Services

Surface Forces and Their Influence on the Properties
of Heterogeneous Systems, by B. V. Deryagin,
11 pp.

RUSSIAN, bk, Issledovaniya v Oblasti Poverkhnostnykh
Sil, Sbornik Dokladov na Konferentsii po Poverkhnostnym
Silam, April 1960, Izdatel'stvo Ak Nauk SSSR,
Moscow, 1961. 9667413

Adhesion of Quartz Threads in Aqueous Media, by
A. D. Malkina, B. V. Deryagin.

RUSSIAN, per, Kolloid Zhur, Vol XII, No 6, 1950,
pp 431-447.

NIL M 5049

Sci - Chem
Mar 63

226,545

Theory of Long-Range Interaction Between Evaporating or
Growing Drops of Solution, by ~~XXXX~~ B. V. Deryagin,
S. S. Dukhin, 5 pp.

RUSSIAN, per, Kolloidnyi Zhur, Vol XXIV, No 4,
1962, pp 424-430.

CB

Sci
Jun 63

233,730

Diffusiophoresis of Aerosol Particles, by
B. V. Deryagin, S. P. Bakanova, S. S.
Dukhin, G. A. Batova, 9 pp.

RUSSIAN, bk, Issledovaniya v Oblasti
Poverkhnostnykh Sil, Sbornik Dokladov na
Konferentsii po Poverkhnostnym Silam, April
1960, Izdatel'stvo Ak Nauk SSSR, Moscow, 1961.
9667413

FTD-FF-62-429

Sci - Phys
Jan 63

295

Thermodynamics of Thin Films. 1. Thermodynamics
of Isolated Films, by G. A. Martynov, B. V.
Deryagin, 7 pp.

RUSSIAN, per, Kolloidnyi Zhur, Vol XXIV, No 4,
1962, pp 486-487.

CB

Sci
Jun 63

233,748

Research in Surface Forces, by B. V. Deryagin.

RUSSIAN, bk.

CB

Sci - Earth Sci

230,735

May 63

12 237

US-14

DERYAGIN B. V., ZAKHAEVA N. N., et al.

A filtration method for determining the specific surface area
of porous bodies

p. 203-213 of "Metody issledovaniya struktury vysokodispers-
nykh i poristykh tel", Izd. Akad. Nauk SSSR, Fiz.-Khimich.
Inst., 1958

Proceedings of the Second Conference of the Acad. of Sciences
of the USSR, Phys.-Chem. Inst., 1956

ATS-10M43R. \$ 17.60 - English

Euratom

ATS/RJ-2537

DERJAGUIN, B.

"On the Cause of the Non-coal-
escence of Liquid Drops upon
Contact."

CR LIV, No 6, 46, 507

A 16 v 3

18

**Medical Service of International Expeditions in
the Antarctic, by M. P. Barmine. 7 pp.
RUSSIAN, per, Soviet Encyclopedia, No 7, 1964, pp 30-34.
IPRS 2449**

**Sci - B & M
Dec 64**

249,632

The Physical Chemistry of Coating Thin Layers
on a Moving Support, by B. V. Deryagin, S. M.
Levi.

RUSSIAN, monograph, 1959, 209 pp.

SLA 61-20021

Sci
Mar 62

Vol VII, No 2

117
The Correct Form of the Equation for the
Capillary Condensation in Porous Bodies
Used to Determine their Structure from
Adsorption and Sorption Isotherms, and
the Converse, by B. V. Deryagin.
RUSSIAN, per, Doklady Ak Nauk SSSR, Vol 113,
No 4, 1957, pp 842-845.
NLL Ref: 5196 1965 (1288)

B.V. Deryagin

Sci-Phys
June 66

301,490

Methods of Investigating the Frictional Properties of
Polymers under Strong Unidirectional Compression, by
B. V. Deryagin, Yu. P. Toporov. 4 pp.

RUSSIAN, per Kolloid Zhur,
Vol. XXIII, No.1, 1961, pp. 118-121

CB

193, 935

Sci

Mar 62

A New Ultramicroscope with Automatic Automatic
Particle Counting, by B.V. Deryagin, V.V. Gerasimov,
G.Ya. Vlasenko, 50p.

RUSSIAN, per, Kolloid Zhur,
Vol. XXIII, No. 2, 1961, pp. 234-237.

CU

Sci

194, 318

Mar 62

Thickness of Oxide Film, Formed on Aluminium During
its Moulding in Electrolytes of the I Group, by B.V.
Deryagin, R.M. Friedland.

RUSSIAN, per, J. Tech. Physics USSR, Vol. 18, No.11,
1948, pp 1443-1448.
INSDOC/Ref. T. 4607. PP .9

B.V. DERYAGIN

Sci -
July 1967

334-392

Some Improvements in the Measurement of Deformations
for the Determination of Residual Stresses in
Thin-Walled Rings (Tubes), by G. A. Deryagin, 3 pp.

RUSSIAN, per, Zavod Lab, Vol XXIV, No 2,
1958, pp 206, 207.

Instru Soc of Amer

Sci

Apr 60

113,262

61-13343

Deryagin, V. D. and Levi, S. M.

KINETIC WETTING IN COATING AND THE METHOD
OF ITS MEASUREMENT. [1960] 8p. 8 refs. M1962.
Order from LC or SLA mi\$1.80, ph\$1.80 61-13343

Trans. of Zhurnal Nauchnoy i Prikladnoy Fotografii i
Kinematografii (USSR) 1956, v. 1, p. 354-358.

The action of wetting agents on coating is determined by their kinetic adsorption in the zone of contact between the emulsion and the base. Wetting agents exhibiting good wetting properties are characterized by a larger value of Δ and γ_{10} ; with a decrease in these values the wetting properties are diminished. The anti-comet action of a wetting agent depends on the structure of the polar groups and the length of the hydrocarbon radical, while the anion-active substances (101, 102, and 103) show better anti-comet activities; from which it must be noted that a direct connexion is not observed between kinetic adsorption and anti-comet activity. (Author)

(Materials--Photographic, TT, v. 5, no. 3)

1. Photographic emulsions--
Sensitivity
2. Wetting agents--
Effectiveness
- I. Deryagin, V. D.
- II. Levi, S. M.
- III. DSIR LLU M.1962

Office of Technical Services

Anodic Dissolution of Germanium with a p-n
Junction, by O. G. Deryagina, E. N. Paleolog,
N. D. Tomashov, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXXIII,
No 2, 1960, pp 388-391.

CB

XX Sci

Apr 61

149,203

Determination of Susceptibility to Inter-
granular Corrosion of Welds in Structures,
by N. D. Tomashov, O. G. Deryagina.

RUSSIAN, per, Zavod Lab, Vol XXIII, No 6,
1957, pp 679-682.

Brutcher 4461

Sci - Min/Met

Jun 59

90,036

Micro-electrochemical Methods for Investi-
gating the Structure of Corrosion, by O.G.
Deryagina.
RUSSIAN, per, Trudy-Inst. Fiz. an SSSR,
Vol 6, No2, 1957, pp 69-78.
NLL/RTS 2312 - Price : 25s. Od.

C.G. DERYAGINA

Sci -
Jul 67

334,322

Electrochemistry and Corrosion of Semiconductors
in Electrolyte Solutions. III. Dissolution of
Germanium in Contact with Other Metals, by
O. G. Deryagina, Ye. N. Paleolog, N. D. Tomashov,
4 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXIV, No 9,
1960, pp 1952-1959.

Cleaver-Hume Press

Sci
Aug 61

167,064